

H3A Flex

High-efficiency single-phase solar inverters for residential PV systems.

30 V ↑

Wide input voltage range (30 to 600 V)

- IP65 aluminum housing for long-lasting protection against moisture and corrosion
- Compact design with exceptional power density for easy installation

97.5%

Peak efficiency

- Grand comfort d'utilisation de par son design sans ventilateurs
- Commissioning and monitoring with smartphone app via Wi-Fi

3.0 kVA solar inverter

Input (DC)	H3A Flex
Max. Power	3.19 kW
Operating voltage range	30 to 600 V_{DC}
MPP voltage range	30 to 550 V_{DC}
MPP voltage range with max. Power	180 to 500 V_{DC}
Maximum current (per MPP tracker / total)	11 A / 18 A
Max. number of MPP trackers	2
Max. number of module strings per MPP tracker	1

Output (AC)	H3A Flex
Max. Apparent power [1) 2)]	3.0 kVA
Nominal apparent power [2)]	3.0 kVA
Voltage range [3)]	230 V_{AC} -20%/+22%, single-phase (L, N, PE)
Nominal current	13 A
Frequency range [3)]	50 / 60 Hz ± 5 Hz
Adjustment range of power factor	0.8 cap to 0.8 ind
Total harmonic distortion (THD)	< 3% at rated apparent power

General Specifications	H3A Flex
Delta model name	H3A_220
Delta part number	RPI302H220000
Peak efficiency	97.5%
Efficiency EU	96.8%
Operating temperature range	-25 to +60°C
Temperature range without power derating	-25 to +40°C
Storage temperature range	-25 to +60°C
Relative humidity	0 to 95% non-condensing
Maximum operating altitude	2000 m (above sea level)
Standard guarantee	5 years (warranty extension available upon request)

Mechanical design	H3A Flex
Dimensions (H x W x D)	318 × 380 × 130 mm
Weight	10 kg
Cooling	Natural convection, without fans
Mounting options	Wall mounting [4)]
Disconnectors	1 mechanical DC disconnectors
Connection type AC side	1 AC plug Wieland RST 25I3S (96.031.4154.3) [5)]
Connection type DC side	2 pair DC plugs Multi-contact MC4 [5)]

Communication	H3A Flex
Communication interfaces	Wi-Fi
Display	None
Data visualization	DeltaSolar app, MyDeltaSolar Cloud
Display of operating status	3 LEDs

Safety / Standards	H3A Flex
Protection class	IP65
Safety class	I
Configurable trip parameters	Yes
Insulation monitoring	Yes
Overload behavior	Current limitation, power limitation
Anti-islanding protection/grid regulation	VDE 0126-1-1; VDE-AR-N 4105; EN 50438 2013:Netherlands, C10/11
EMC	EN61000-6-2; EN61000-6-3
Safety	IEC 62109-1/-2; CE compliance

1) Cos Phi = 1 (VA = W)
2) Whether the maximum apparent power can be achieved depends on the environmental conditions.
3) AC voltage and frequency range are programmed based on the respective country regulations.
4) Mounting plate included in scope of delivery
5) Included in scope of delivery

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